Industry Oriented Training and

Capacity Building Program on Cyber Crimes,

Ethical hacking, Cyber Security, Forensics and Cyber Laws

IEEE Gujarat Section
In association with

CLS- Cyberra Legal Services
announces

Training and Capacity Building Program on
Cyber Crime, Ethical Hacking, Cyber Security, Forensics and Cyber Laws

Information technology has enhanced the communication & has facilitated the growth of trade and commerce. The technology has fastened the e-commerce, e-Governance, net banking, mobile banking, online share trading and other commercial transactions. Cyber Criminals carry out online frauds and other criminal activities such as online defamation, data theft, obscenity, online pornography, phishing and violence etc. The biggest advantage for the offenders committing online crimes is that they can remain anonymous. The regulatory sphere is still in a nascent stage and continuously evolving every passing day. This program is organized by the IEEE Gujarat Section and CLS- Cyberra Legal Services aim to extend knowledge of cyber security, forensics & cyber laws amongst upcoming lawyers, IT, Management and Commerce Students.

About IEEE

IEEE is the world's largest professional association comprising of over 430,000 members (including 120,000 student members) in more than 160 countries dedicated to advancing technological innovation and excellence for the benefit of humanity. India has nearly 50K members (accounting for ~ 43% of Asia-Pacific region) with an annual growth rate of 9%. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

It has 38 Societies and 7 technical Councils representing the wide range of IEEE technical interests. IEEE publishes more than 148 transactions, journals, and magazines; and sponsors more than 1,450 conferences in 92 countries. With this it

manages a digital library of 4 million plus documents in the IEEE Xplore, with more than 10 million downloads each month. IEEE Standards Association has a portfolio of around 1,500 standards and projects under development. This includes the prominent IEEE 802.11® standards for wireless networking. For detail you may visit http://www.ieee.org/index.html.

About IEEE GUJARAT SECTION

IEEE Gujarat Section is one of 11 sections in India, completing its 25 years of foundation next year. It has around 1500 members, including 850 student members (spreading in 20 engineering institute campuses). We have 9 chapters (of 12 IEEE societies). We conduct one- and/or two-days workshops, conferences, half day seminars, 90 minute talks on many concurrent technical topics. Recently, in Nov. 2013, we organized National Workshop on Cyber Security. This year we have organized 2-Day Workshop on Emerging Research Trends in Engineering (in July 2014) and have planned to organize the National Seminar on Computer Vision and Image Processing (in Sep 2014) besides other events. Next year we are organizing an International Conference on the theme of Internet of Things, TENSYMP 2015 (in May 2015).For more details of Gujarat section, ***http://ieeegujaratsection.org/*** and about the detailed history of Gujarat Section, http://www.ieeeghn.org/wiki/index.php/IEEE_Gujarat_Section_History.

About CLS- Cyberra Legal Services

Founded in Ahmedabad in 2003, Cyberra Legal Services is a premier organization in cyber security/cyber law advisory, consultancy, training and education. It is the first of its kind of service venture in Gujarat with Key Personnel who are Technology Graduates, Law graduates, Ethical Hackers having specialized in cyber laws. CLS

serves its various clients in five cities namely Ahmedabad, Gandhinagar, Baroda, Rajkot and Delhi. CLS, in association with Manan Thakker & Associates (Advocates & Cyber Law Consultants), have filed highest number of cyber fraud compensation matters in the state of Gujarat till December, 2014. CLS holds memberships with three prestigious committees namely Cyber Security Consultant Selection Committee, Govt. of Gujarat; Cyber Security Committee of Gujarat Police's Raksha Shakti Universtiy and Legal Committee, GESIA.

Objective of this course

- To facilitate understand & critical understanding about Cyber crimes, Ethical Hacking, cyber security, forensics and cyber laws
- Exploration of the legal and policy developments in various countries for cyber space
- To provide in-depth knowledge of Information Technology Act, 2000 including Information Technology Amendment Act, 2008
- Understanding e-Governance, Electronic Contracts, e-Banking & Secure electronic records
- To share knowledge of the regulation of cyber space at national and international level
- To train and prepare candidate to consider Cyber security, forensics and cyber laws as a career option.

Eligibility Criteria

The said program is open for professionals and practitioners of the areas of cyber security, cyber law, cyber forensics, system administrator, computer networking, and allied fields and students of HSC/B.E./B.Tech./BCA/MCA/M.Sc.

(IT)/LLB/LLM/CS/ICWA/CA/MBA/BBA/PGDCA/B.Com./M.Com./B.A./ Diploma Programs in India.

Desirable

This course is meant for everyone who uses computers, mobiles and Internet. Prior knowledge of either law or technology is NOT mandatory.

Benefits of completing this program

You will get an edge over your peers for employment opportunity in

- ✓ Software, IT, Security and Consulting Companies
- ✓ BPO Companies
- ✓ LPO/KPO Companies
- ✓ Internet Service Providers
- ✓ Mobile Service Providers
- ✓ Corporate Business Houses
- ✓ Banks and Financial institutions
- ✓ Data Centers
- ✓ Certifying Authorities for Digital Signature Certificates
- ✓ Cyber Crime Cells
- ✓ Chartered Accountant Firms
- ✓ Law Firms
- ✓ Bio-Tech Companies
- ✓ Pharmaceutical companies
- ✓ Clinical Research Organizations
- ✓ Life Science Companies and Hospitals.
- ✓ Colleges.

Course Contents

A. Cyber Crimes

- Data diddling
- Data leakage
- Eavesdropping
- E-mail forgery
- E-mail threats
- Internet misinformation
- Internet terrorism
- Password cracking
- Round downs
- Salami Techniques
- Scavenging/Corporate Espionage
- Social Engineering
- Software Piracy
- Spamming
- Super zapping
- Piggybacking
- Trap door
- Trojan Horse
- Virus
- Worm
- Impersonation
- Time bomb
- Logic bomb
- Dos Attacks

B. Ethical Hacking & Cyber Security

- Email Hacking & its security
- Social Media Hacking & its Security
- Web Hacking & its Security
- Mobile Hacking & its Security
- Fake Calls, fake SMS & its Security
- Wi-Fi Network Hacking & its Security
- Windows Hacking & its Security
- DDOS Attack & its Security
- Software Hacking & Reverse Engineering
- Cross site scripting & its Security
- Basics of cryptography, Encryption & Decryption
- Security breaches case studies
- Categorization of Digital Security
- Multimedia Security (Steganography)
- Malware Concepts (Virus, Worms, Trojan etc.)
- Firewall & IDS/IPS Concepts
- Basics of Vulnerability Assessment & Penetration Testing
- Spying & Cyber Reccy
- Email forgery and E-mail Tracing

C. Cyber Laws

- Introduction to Information technology & Cyber Law
- Basics of E-commerce and Computer Fraud Techniques
- Cyber Security Fundaments, Techniques and Core Principles
- Cyber Space, Technology & Issues
- Regulating Cyber Space: International

- Regulating Cyber Space: National

- E-contract & Electronic Data Interchange

- E-signature and E-governance legality under I.T.Act, 2000

- Cyber Contraventions, Compensation & Crimes under I.T.Act, 2000

- ISPs and Websites Legal Liability under I.T.Act, 2000

- Corporate Legal Liability under I.T.Act, 2000

- Adjudication Process For Recovery of Losses under I.T.Act, 2000

- Case Studies and Case Laws

D. Cyber Forensics

- Forensic Imaging & Storage Media Duplication (FTK Imager)

- Windows Forensics Artifacts (Nirsoft/SysInternals)

- Various Case Studies

- Data Recovery (TestDisk/PhotoRec)

- Forensic Investigation of Image (Autopsy)

- Malware Analysis (Static/Dynamic)

- DEFT OS

- Social Media Forensics (FB/Twitter/LinkedIn etc.)

- Multimedia Forensics (JPEGSnoop/ImageHeader Analysis)

- File Header Analysis, Office Files Analysis (FOCA), File Signature

- Smart Phone Forensics (AFLogical, ViaForensics, MobileEdit)

- Timeline Analysis (Event Log Analysis)

- Registry, NTUSER.DAT, USERCLASS.DAT Analysis (Regedit, FRAT, Scripts)

- RAM Forensics (Concepts & Artifacts Analysis)

Study Material

Specially compiled exclusive study material will be provided along with copy of the Information Technology Bare Act.

Duration of the program

Week end program (on Sundays - 5 hours) for 2 months @ Ahmedabad (Gujarat)

Evaluation

The candidates will be evaluated for maximum of 100 marks for which one MCQ (Multiple Choice Questions) Open Book Exam will be conducted on the last Sunday of program. The candidate needs to score at least 40% marks to complete the course and get the certificate of participation.

Fee Structure

- Tuition Fees: Rs. 8,500/-
- Application Charges: Rs. 150/-

How to Apply

The application form can be downloaded from **www.cyberralegalservices.com** or **http://ieeegujaratsection.org/** or write to Program Coordinator.

Candidate should write "C**ertificate Program on Cyber Crime, Ethical Hacking, Cyber Security, and Forensics & Cyber Laws"** on the envelope containing Application.

Contact Us

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Coordinator IEEE – CLS

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